SUBJECT INDEX TO VOLUME 112

ABDOMEN, surgery, Postoperative use of dextro pantothenyl alcohol, 526; Intussusception as postoperative complication in pediatric surgery, 583

Abnormalities and deformities, Roentgenographic and surgical aspects of vascular anomalies of spinal cord, 729

Acid, ribonucleic (RNA), Rapid identification of malignant cells in vaginal smears by cytoplasmic fluorescence, 3

Acid-base balance, in surgical patients—II, dynamic state of equilibrium, 106

Acidosis, Experimental study of role of colonic mucosa in hyperchloremic, 357; Experimental study of role of kidney in hyperchloremic, 600; Anuria of hypovolemic shock relieved by tris (hydroxymethyl) aminomethane (THAM), 724

Adhesions, Plication procedure in treatment of small bowel, 343

American College of Surgeons, Clinical Congress, 1961, Chicago, Preliminary plans for 47th, 2 through 6 October, 769

Amine buffer, THAM—tris (hydroxymethyl) aminomethane, Anuria of hypovolemic shock relieved by, 724

Anatomy, Common variations in renal, affecting blood supply, form, and topography, 439

Anesthesia, Hepatic blood flow variations during surgical, in man measured by radioactive colloid, 289

Antibiotics, coly-mycin, Some laboratory and clinical observations on, (colistin) with particular reference to pseudomonas infections, 211; Prophylactic use of, in clean surgery, ed., 218

Anuria, See Urine, suppression

Appetite depressant, diethylpropion, Use of, combined with supplement for safe and effective weight control in pregnancy, 633

Arteries, Renal, arterial insufficiency causing hypertension, ed., 120; mesenteric, Superior, embolectomy, 257; renal, Common variations in, anatomy, affecting blood supply, form, and typography, 439; hepatic, Intrahepatic arteriovenous fistula of, and portal vein, 497; brachial, Left, arterial catheterization for chemotherapy in advanced intra-abdominal malignant neoplasms, 689

Arteriosclerosis, Use of new simplified plethysmograph in clinical evaluation of patients with, obliterans, 751

Arthrography, technique, Experimental study of radiocarpal joint by, 33

Ascites, Evaluation of development on portosystemic collaterals in, 47

Ascorbic acid, in biosynthesis and maintenance of collagen, 667

Asepsis, Prophylactic use of antibiotics in clean surgery, ed., 218

BACTERIA, pyogenic, Etiology and therapy of acute, parotitis, 391; Suppurative parotitis, ed., 493

Bile ducts, surgery, Reconstruction of common, by end-to-end anastomosis without employment of internal splint or stent support, 305; roentgenography, Operative cholangiography by utilization of cystic duct, 378

Biosynthesis, Ascorbic acid in, and maintenance of collagen, 667

Bladder, cancer, surgery, Appraisal of renal function and infection in advanced, treated with ileal, construction and irradiation, 53

Blood, circulation, Effect of alteration of liver, flow upon experimental hepatic metastases, 11; lactate-pyruvate ratio, Response of canine liver to anaerobic metabolism induced by hemorrhagic shock, 19; circulation, Evaluation of development of portosystemic collaterals in ascites, 47; circulation, extracorporeal, potassium, Treatment of acute hyperkalemia utilizing, perfusion of, through cation exchange resin columns, 67; coagulation, Possible relation of plasma enzyme activity to thromboembolism, 315; plasma, Effect of large therapeutic doses of plasmin on fibrinogen and other, proteins, 366; arterialization, Controversial fruit of voyage to Java, 381; oxygen, Intervillous, studies, 435; cholesterol, Serum lipid patterns before and after castration of human female, 450; circulation, extracorporeal, Temperature difference in organs and tissues with observations on total oxygen uptake in profound hypothermia, 519; coagulation, fibrinogen, Hypofibrinogenemia associated with placenta previa and placenta previa accreta, 551; chlorides, Experimental study of role of kidney in hyperchloremic acidosis, 600; circulation, Determination of vascular status of pedicle skin grafts by radioactive tracer studies, 625; circulation, Selective removal of transfused, compatible erythrocytes from, of normal dogs, 675; volume, Total red cell, changes associated with extensive surgery, 697

Blood pressure, high, Renal arterial insufficiency causing hypertension, ed., 120; and osmolarity changes in dumping syndrome, 488; high, Production of portal hypertension in dogs by new method, 543

Blood transfusion, complications and sequels, Selective removal of transfused, compatible erythrocytes from circulation of normal dogs, 675

Blood vessels, enlargement, Vascular response to repeated fracture, 421; anatomy, Vascular pattern of gastric mucosa of rat following vagotomy, 475; anomalies, Roentgenographic and surgical aspects of vascular, of spinal cord, 729; peripheral, Use of new simplified plethysmograph in clinical evaluation of patients with arteriosclerosis obliterans, 751

Body, Analysis of alterations in, composition in burned patients, 425

Bone, growth, Contributions of endosteum, cortex, and soft tissues to osteogenesis, 145; blood supply, Vascular response to repeated fracture, 421

Book Shelf, Neglected genius of nineteenth century, 127; Controversial fruit of voyage to Java, 381; Joseph Lister and old Edinburgh Infirmary as described by poet William Ernest Henley, 511

Brain, tumor, Life history and treatment of meningiomas within lateral ventricles, 299

Breast, cancer, Intraductal papilloma of, 153; cancer, Experiences with program to achieve palliation of incurable carcinoma of, 334; cancer, Inflammatory carcinoma of, 406; fibrocyst, Chronic fibrocystic disease of, 647

Burns, Estimation of nitrogen requirements for equilibrium in burned patients, 159; treatment, Estimation of potassium requirements for equilibrium in burned patients, 263; experimental, Response to fluid therapy and tissue electrolyte changes in scalded and flash burned monkeys, 274; Analysis of altera-

tions in body composition in burned patients, 425; treatment, Use of modified exposure in management of, wounds, 577

CANCER, cells, diagnosis, Rapid identification of malignant, in vaginal smears by cytoplasmic fluorescence, 3; metastasis, Effect of alteration of liver blood flow upon experimental hepatic, 11; Urologic problems, in carcinoma of cervix, 27; recurrence, Lymphatic studies pertaining to local spread of carcinoma of rectum in female, 41; bladder, Appraisal of renal function and infection in advanced, treated with ileal, construction and irradiation, 53; diagnosis, Clinically "benign" gastric ulcerations found to be malignant at operation, 82; statistics, Measurement of, survival by hospital registry, 173; Treatment, of advanced, with 5-fluorouracil, 185; metastasis, Clinical observations of conditions which apparently enhance malignant cell survival, 191; treatment, Experiences with program to achieve palliation of incurable carcinoma of breast, 334; surgery, Choice of operation in pulmonary, ed., 369; adenocarcinoma, Inflammatory carcinoma of breast, 406; cells, Assessment of exfoliation of tumor, into body cavities, 469; Histochemical observations on polyp-carcinoma sequence, 534; children, of thyroid and previous irradiation, 564; surgery, Effect of topical nitrogen mustard on wound healing, 684; treatment, Left brachial arterial catheterization for chemotherapy in advanced intra-abdominal malignant neoplasms, 689; radium therapy, Preoperative radiation, for adenocarcinoma of rectum and rectosigmoid, 715; metastasis, Elective versus delayed neck dissection in, of larynx, 736; surgery, Urinary diversion in pelvic exenteration, 743; diagnosis, Guess and gamble, ed., 750; Reconstruction of functioning vagina following radiation therapy for, of cervix, 761

Cancer registry, Measurement of cancer survival by hospital, 173

Carcinoma, See Cancer; also names of organs

Cartilage, grafts, pharyngoplasty in cleft palate patients, 350; cricoid, Repair of injured larynx following destruction of, 507

Castration, Serum lipid patterns before and after, of human female, 450

Catheterization, Left brachial arterial, for chemotherapy in advanced intra-abdominal cancers, 689

Cells, See Cancer, cells

Chemotherapy, Left brachial arterial catheterization for, in advanced intra-abdominal malignant neoplasms, 689

Children, Bleeding esophageal varices in, 101; Intussusception as postoperative complication in pediatric surgery, 583

Cholangiography, See Bile ducts, roentgenography

Cineroentgenography, Clinical and cineradiographic evaluation of Mathisen ureterosigmoidostomy, 481

Collagen, Ascorbic acid in biosynthesis and maintenance of, 667

Colloids, Hepatic blood flow variations during surgical anesthesia in man measured by radioactive, 289

Colon, inflammation, Surgical treatment of coexisting regional enteritis and ulcerative colitis, 96; surgery, Experimental study of role of colonic mucosa in hyperchloremic acidosis, 357; Histochemical observations on polyp-carcinoma sequence, 534; tumor, Villous, of rectum and, characterized by severe fluid and electrolyte loss, 609

Coly-mycin, See Antibiotics

Cortisone, Morphologic modifications in granulomatous thyroiditis due to, administration, 590

Cystic duct, Surgical significance of external length of, 124

Cytology, Rapid identification of malignant cells in vaginal smears by cytoplasmic fluorescence, 3

DACRON, Clinical experience with, as nonabsorbable suture material, 373

Dextro pantothenyl alcohol, Postoperative use of, 526

Diagnosis, differential, Clinically "benign" gastric ulcerations found to be malignant at operation, 82; Experimental method for localizing source of intestinal bleeding, 285; cancer, Assessment of exfoliation of tumor cells into body cavities, 469; differential, Clinical significance of spermatic granuloma, 659; Guess and gamble, ed., 750

Dressings, Use of modified exposure in management of burn wounds, 577

Drugs, Treatment of advanced cancer with 5-fluorouracil, 185; Antithyroid, in treatment of hyperthyroidism, 653

Dumping syndrome, Blood pressure and osmolarity changes in, 488

Duodenum, ulcer, Twenty-four years of experience with elective gastric resection for duodenal, 203; hemorrhage, Therapy for gastroduodenal, ed., 221

Dyes, fluorescent acridine orange, Rapid identification of malignant cells in vaginal smears by cytoplasmic fluorescence, 3

Edinburgh Infirmary, Joseph Lister and old, as described by poet William Ernest Henley, 511

Editorials, Pulmonary emphysema, 117; Renal arterial insufficiency causing hypertension, 120; Prophylactic use of antibiotics in clean surgery, 218; Therapy for gastroduodenal hemorrhage, 221; Choice of operation in pulmonary cancer, 369; Surgical training, 371; Suppurative parotitis, 493; Scrub nurse—vanishing species, 494; Closed chest cardiac resuscitation, 622; Role of electrical pacemakers in treatment of unexpected cardiac arrest, 624; Surgery of head and neck, 748; Guess and Gamble, 750

Education, medical and surgical, training, ed., 371; Scrub nurse—vanishing species, ed., 494

Electrolytes, Acid-base balance in surgical patients—II, dynamic state of equilibrium, 106; Response to fluid therapy and tissue, changes in scalded and flash burned monkeys, 274; balance, Villous tumors of rectum and colon characterized by severe fluid and, loss, 609

Embolism, Superior mesenteric artery embolectomy, 257

Emphysema, Pulmonary, ed., 117

Endocrine glands, Effects of, homografts on thyroid and parathyroid function, 196

Endosteum, Contributions of, cortex, and soft tissues to osteogenesis, 145

Energy, conservation, Controversial fruit of voyage to Java, 381

Enzymes, Possible relation of plasma, activity to thromboembolism, 315; Histochemical observations on polyp-carcinoma sequence, 534

Epididymis, Clinical significance of spermatic granuloma, 659

Erthyrocytes, Selective removal of transfused, compatible, from circulation of normal dogs, 675; Total red cell volume changes associated with extensive surgery, 697

Esophagus, varix, Bleeding esophageal varices in children, 101

Extremities, circulatory disease, Thrombectomy for acute iliofemoral venous thrombosis in postpartum period, 75

FETUS, blood in, Intervillous, oxygen studies, 435

Fibrinogen, Effect of large therapeutic doses of plasmin on, and other plasma proteins, 366

Fibrinolysin, Dissolution effect of human, on preformed venous thrombi in dogs, 295
Fistula, arteriovenous, Intrahepatic, of hepatic artery and portal vein, 497; pancreatic, External, 639
Fluids, administration, Response to fluid therapy and tissue electrolyte changes in scalded and flash burned monkeys, 274; loss, Villous tumors of rectum and colon characterized by severe fluid and electrolyte, 609
5-Fluorouracil, Treatment of advanced cancer with, 185
Fracture, experimental, Vascular response to repeated, 421; treatment, Management of unstable trochanteric, 633; complications and sequels, Neurologic complications of, and dislocations of pelvis, 702

GALLBLADDER, surgery, Surgical significance of external length of cystic duct, 124; surgery, Neglected genius of nineteenth century, 127
Gangrene, Intestinal, associated with heart disease, 529
Gastrointestinal tract, hemorrhage, Experimental method for localizing source of intestinal bleeding, 285
Genitalia, female, Lymphatic studies pertaining to local spread of carcinoma of rectum in, 41
Genitourinary tract, Clinical significance of spermatic granuloma, 659
Grafts, rejection, Studies on, of transplanted homologous dog liver, 135; endocrine, Effects of, homografts on thyroid and parathyroid function, 196; Cartilage, pharyngoplasty in cleft palate patients, 350; skin, Use of modified exposure in management of burn wounds, 577; skin, Determination of vascular status of pedicle, by radioactive tracer studies, 625; renal, Effect of 6-mercaptopurine on, homograft survival in dog, 707; polyvinyl (ivalon), Improved gusset for relief of infundibular stenosis in surgical correction of tetralogy of Fallot defects, 757; Modified procedure for complete repair of total anomalous pulmonary venous drainage, 763
Granuloma, Morphologic modifications in granulomatous thyroiditis due to cortisone administration, 590; Clinical significance of spermatic, 659

HEAD, Surgery of, and neck, ed., 748
Heart, surgery, Technique of securing base of left auricular appendage after mitral valvular commissurotomy, 255; disease, Intestinal gangrene associated with, 529; arrest, Closed chest cardiac resuscitation, ed., 622; arrest, Role of electrical pacemakers in treatment of unexpected cardiac, ed., 624; abnormalities and deformities, Improved gusset for relief, of infundibular stenosis in surgical correction of tetralogy of Fallot defects, 757; abnormalities and deformities, Modified procedure for complete repair of total anomalous pulmonary venous drainage, 763
Hemodynamics, Role of liver in development of hemorrhagic shock, 327
Hemorrhage, Therapy for gastroduodenal, ed., 221; Experimental method for localizing source of intestinal bleeding, 285; experimental, Role of liver in development of hemorrhagic shock, 327
Henley, William Ernest, Joseph Lister and old Edinburgh Infirmary as described by poet, 511
Hip, fracture, Engineering design of, nails and development of H-beam nail, 567; fracture, Management of unstable trochanteric, 633
Histochemistry, Histochemical observations on polyp-carcinoma sequence, 534
Histopathology, Clinical and histopathologic study of oral leukoplakia, 411
Hodgkin's disease, Surgical aspects of hypersplenism in lymphoma and leukemia, 89
Hormone, effects, Chronic fibrocystic disease of breast, 647
Hospital, registry, Measurement of cancer survival by, 173
Hydrogen ion concentration, Acid-base balance in surgical patients—II, dynamic state of equilibrium, 106
Hypertension, See Blood pressure, high
Hypothermia, Temperature difference in organs and tissues with observations on total oxygen uptake in profound, 519

INFECTION, treatment, Some laboratory and clinical observations on coly-mycin (colistin) with particular reference to pseudomonas, 211; surgical, Prophylactic use of antibiotics in clean surgery, ed., 218
Instruments and apparatus, Treatment of acute hyperkalemia utilizing extracorporeal perfusion of blood through cation exchange resin columns, 67; Multipurpose gastrostomy tube, 122; Engineering design of hip nails and development of H-beam nail, 567; Role of electrical pacemakers in treatment of unexpected cardiac arrest, ed., 624; Use of new simplified plethysmograph in clinical evaluation of patients with arteriosclerosis obliterans, 751
Intestines, inflammation, Surgical treatment of coexisting regional enteritis and ulcerative colitis, 96; hemorrhage, Experimental method for localizing source of intestinal bleeding, 285; surgery, Plication procedure in treatment of small bowel adhesions, 343; infarction, Intestinal gangrene associated with heart disease, 529; Intussusception, as postoperative complication in pediatric surgery, 583; tumor, Villous, of rectum and colon characterized by severe fluid and electrolyte loss, 609; grafts, Urinary diversion in pelvic exenteration, 743
Ischemia, Effect of kidney hyperthermia on renal tolerance to total, 559: Evaluation of gaseous oxygen perfusion as method for maintaining renal viability during periods of complete, 593
Ivalon sponge, Improved gusset for relief of influndibular stenosis in surgical correction of tetralogy of Fallot defects, 757

KIDNEY, physiology, Appraisal of renal function and infection in advanced bladder cancer treated with ileal bladder construction and irradiation, 53; physiology, Treatment of acute hyperkalemia utilizing extracorporeal perfusion of blood through cation exchange resin columns, 67; blood supply, Renal arterial insufficiency causing hypertension, ed., 120; Common variations in renal anatomy, affecting blood supply, form and topography, 439; physiology, Clinical and cineradiographic evaluation of Mathisen ureterosigmoidostomy, 481; blood supply, Effect of, hyperthermia on renal tolerance to total ischemia, 559; blood supply, Evaluation of gaseous oxygen perfusion as method for maintaining renal viability during periods of complete ischemia, 593; physiology, Experimental study of role of, in hyperchloremic acidosis, 600; transplantation, Effect of 6-mercaptopurine on renal homograft survival in dog, 707

LARYNX, injury, Repair of injured, following destruction of cricoid cartilage, 507; cancer, Elective versus delayed neck dissection in, of, 736
Leukemia, Surgical aspects of hypersplenism in lymphoma and, 89
Leukoplakia, Clinical and histopathologic study of oral, 411
Lipids, Serum, patterns before and after castration of human female, 450
Lister, Joseph, and old Edinburgh Infirmary as described by poet William Ernest Henley, 511
Liver, blood supply, Effect of alteration of, flow upon experimental hepatic metastases, 11; cancer, oxygen

supply, Effect of alteration of, blood flow upon experimental hepatic metastases, 11; blood supply, Response of canine, to anaerobic metabolism induced by hemorrhagic shock, 19; transplantation, Studies on rejection of transplanted homologous dog, 135; blood flow, Hepatic, variations during surgical anesthesia in man measured by radioactive colloid, 289; metabolism, Role of, in development of hemorrhagic shock, 327; blood supply, Intrahepatic arteriovenous fistula of hepatic artery and portal vein, 497
Lungs, surgery, Comparative long term study following pulmonary resection for tuberculosis, 61; Pulmonary emphysema, ed., 117; cancer, Choice of operation in pulmonary, ed., 369; Guess and gamble, ed., 750
Lymph nodes, cancer, Elective versus delayed neck dissection in, of larynx, 736
Lymphatic system, studies pertaining to local spread of carcinoma of rectum in female, 41
Lymphoma, Surgical aspects of hypersplenism in, and leukemia, 89

Massage, Closed chest cardiac resuscitation, ed., 622; Role of electrical pacemakers in treatment of unexpected cardiac arrest, ed., 624
Mathisen ureterosigmoidostomy, Clinical and cineradiographic evaluation of, 481
Mayer, Julius Robert, Controversial fruit of voyage to Java, 381
Medicine, history, Controversial fruit of voyage to Java, 381
Meningiomas, Life history and treatment of, within lateral ventricles, 299
6-Mercaptopurine, Effect of, on renal homograft survival in dog, 707
Metabolism, anaerobic, Response of canine liver to, induced by hemorrhagic shock, 19; Acid-base balance in surgical patients—II, dynamic state of equilibrium, 106; Estimation of nitrogen requirements for equilibrium in burned patients, 159; Estimation of potassium requirements for equilibrium in burned patients, 263; Response to fluid therapy and tissue electrolyte changes in scalded and flash burned monkeys, 274; Analysis of alterations in body composition in burned patients, 425; Temperature difference in organs and tissues with observations on total oxygen uptake in profound hypothermia, 519
Mitral valves, Technique of securing base of left auricular appendage after, valvular commissurotomy, 255
Moschcowitz-Graham operation, Management of massive rectal prolapse, 502
Mouth, leukoplakia, Clinical and histopathologic study of oral, 411
Mucous membrane, Experimental study of role of colonic mucosa in hyperchloremic acidosis, 357; Clinical and histopa[illegible]tudy of oral leukoplakia, 411; Vascular pattern [illegible]ic mucosa of rat following vagotomy, 475; Histo[illegible]nemical observations on polyp-carcinoma sequence, 534

Nails, Engineering design of hip, and development of H-beam, 567
Neck, surgery, Elective versus delayed, dissection in cancer of larynx, 736; Surgery of head and, ed., 748
Nerves, vagus, Vascular pattern of gastric mucosa of rat following vagotomy, 475; injuries, Neurologic complications of both fractures and dislocations of pelvis, 702
Nitrogen, balance, Estimation of, requirements for equilibrium in burned patients, 159; Analysis of alterations in body composition in burned patients, 425
Nitrogen mustard, Effect of topical, on wound healing, 684
Nomenclature, Clinical and histopathologic study of oral leukoplakia, 411
Nurses and nursing, Scrub,—vanishing species, ed., 494

Operating room, technicians, Scrub nurse—vanishing species, ed., 494
Osmosis, Blood pressure and osmolarity changes in dumping syndrome, 488
Oxygen, Acid-base balance in surgical patients—II, dynamic state of equilibrium, 106; fetal, Intervillous blood, studies, 435; Temperature difference in organs and tissues with observations on total, uptake in profound hypothermia, 519; Evaluation of gaseous, perfusion as method for maintaining renal viability during periods of complete ischemia, 593

Pacemaker, Role of electrical, in treatment of unexpected cardiac arrest, ed., 624
Palate, cleft, Cartilage pharyngoplasty in, patients, 350
Pancreas, fistula, External pancreatic, 639
Papilloma, Intraductal, of breast, 153
Parotid gland, Etiology and therapy of acute pyogenic parotitis, 391; Suppurative parotitis, ed., 493
Parotitis, Etiology and therapy of acute pyogenic, 391; Suppurative, ed., 493
Pelvis, fracture, Neurologic complications of, and dislocations of, 702; surgery, Urinary diversion in pelvic exenteration, 743
Peritoneum, Assessment of exfoliation of tumor cells into body cavities, 469
Pharynx, Cartilage pharyngoplasty in cleft palate patients, 350
Phosphorus, radioactive, Experimental method for localizing source of intestinal bleeding, 285
Placenta, previa, Hypofibrinogenemia associated with, and, accreta, 551
Plasmin, Effect of large therapeutic doses of, on fibrinogen and other plasma proteins, 366
Plastics, sponge, Experimental study of influence of pore size of implanted polyurethane, upon subsequent tissue formation, 463
Plethysmograph, Use of new simplified, in clinical evaluation of patients with arteriosclerosis obliterans, 751
Polyps, See Tumor, polyps
Polyurethane, Experimental study of influence of pore size of implanted, sponges upon subsequent tissue formation, 463
Portal vein, Evaluation of development of portosystemic collaterals in ascites, 47; Intrahepatic arteriovenous fistula of hepatic artery and, 497; Production of, hypertension in dogs by new method, 543
Potassium, Treatment of acute hyperkalemia utilizing extracorporeal perfusion of blood through cation exchange resin columns, 67; balance, Estimation of, requirements for equilibrium in burned patients, 263; Estimation of total body, in patients with ureterosigmoidostomies, 322
Pregnancy, blood in, Intervillous, oxygen studies, 435; complications, Hypofibrinogenemia associated with placenta previa and placenta previa accreta, 551; weight in, Use of diethylpropion combined with supplement for safe and effective, control, 663
Proteins, Effect of large therapeutic doses of plasmin on fibrinogen and other plasma, 366
Pseudomonas, Laboratory and clinical observations on coly-mycin (colistin), particularly in, infections, 211
Puerperium, Thrombectomy for acute iliofemoral venous thrombosis in postpartum period, 75

Radiation, Reconstruction of functioning vagina following, therapy for cancer of cervix,761
Radioactivity, Experimental method for localizing source of intestinal bleeding, 285; Hepatic blood flow varia-

tions during surgical anesthesia in man measured by radioactive colloid, 289; radioactive isotopes, Determination of vascular status of pedicle skin grafts by, tracer studies, 625

Radium, therapy, Preoperative radiation, for adenocarcinoma of rectum and rectosigmoid, 715; cancer, Lymphatic studies pertaining to local spread of carcinoma of, in female, 41; prolapse, Management of massive rectal, 502; tumor, Villous, of, and colon characterized by severe fluid and electrolyte loss, 609; cancer, Preoperative radiation therapy for adenocarcinoma of, and rectosigmoid, 715

Resins, Treatment of acute hyperkalemia utilizing extracorporeal perfusion of blood through cation exchange, columns, 67

Resuscitation, Closed chest cardiac, ed., 622

Roentgen rays, diagnosis, Experimental study of radiocarpal joint by arthrography, 33; therapy, Appraisal of renal function and infection in advanced bladder cancer treated with ileal bladder construction and irradiation, 53; diagnosis, Operative cholangiography by utilizing cystic duct, 378; effects, Observations concerning spleen homotransplantation in normal and irradiated animals, 455; therapy, Cancer of thyroid and previous irradiation, 564; diagnosis, Roentgenographic and surgical aspects of vascular anomalies of spinal cord, 729; diagnosis, Guess and gamble, ed., 750

SERUM, lipid patterns before and after castration of human female, 450

Shock, hemorrhagic, Response of canine liver to anaerobic metabolism induced by, 19; hemorrhagic, Role of liver in development of, 327; hemorrhagic, Anuria of hypovolemic, relieved by tris (hydroxymethyl) aminomethane (THAM), 724

Sigmoid, Estimation of total body potassium in patients with ureterosigmoidostomies, 322; surgery, Clinical and cineradiographic evaluation of Mathisen ureterosigmoidostomy, 481; cancer, Preoperative radiation therapy for adenocarcinoma of rectum and rectosigmoid, 715

Skin, grafts, Determination of vascular status of pedicle, by radioactive tracer studies, 625

Sodium, balance, Analysis of alterations in body composition in burned patients, 425

Sphincter muscles, anal, Simpler yet more effective repair of incontinent, 375

Spinal cord, anomalies, Roentgenographic and surgical aspects of vascular, of, 729

Spleen, surgery, Surgical aspects of hypersplenism in lymphoma and leukemia, 89; transplantation, Observations concerning, homotransplantation in normal and irradiated animals, 455

Splint, Reconstruction of common bile duct by end-to-end anastomosis without use of internal, or stent support, 305

Sponge, Experimental study of influence of pore size of implanted polyurethane, upon subsequent tissue formation, 463

Stomach, ulcer, Clinically "benign" gastric ulcerations found to be malignant at operation, 82; surgery, Multipurpose gastrostomy tube, 122; surgery, Twenty-four years of experience with elective gastric resection for duodenal ulcer, 203; hemorrhage, Therapy for gastroduodenal, ed., 221; Vascular pattern of gastric mucosa of rat following vagotomy, 475; surgery, Blood pressure and osmolarity changes in dumping syndrome, 488

Surgeon at Work, Multipurpose gastrostomy tube, 122; Surgical significance of external length of cystic duct, 124; Technique of securing base of left auricular appendage after mitral valvular commissurotomy, 255; Superior mesenteric artery embolectomy, 257; Clinical experience with dacron as nonabsorbable suture material, 373; Operative cholangiography by utilizing cystic duct, 378; Simpler yet more effective repair of incontinent sphincter ani, 375; Intrahepatic arteriovenous fistula of hepatic artery and portal vein, 497; Management of massive rectal prolapse, 502; Repair of injured larynx following destruction of cricoid cartilage, 507; Determination of vascular status of pedicle skin grafts by radioactive tracer studies, 625; Modified technique of vein stripping, 630; Management of unstable trochanteric fractures, 633; External pancreatic fistula, 639; Use of new simplified plethysmograph in clinical evaluation of patients with arteriosclerosis obliterans, 751; Improved gusset for relief of infundibular stenosis in surgical correction of tetralogy of Fallot defects, 757; Reconstruction of functioning vagina following radiation therapy for cancer of cervix, 761; Modified procedure for complete repair of total anomalous pulmonary venous drainage, 763

Surgeons, qualifications and responsibility, Surgical training, ed., 371

Surgery, postoperative complications, Acid-base balance in surgical patients—II, dynamic state of equilibrium, 106; experimental, Studies on rejection of transplanted homologous dog liver, 135; end results, Twenty-four years of experience with elective gastric resection for duodenal ulcer, 203; aseptic, Prophylactic use of antibiotics in clean, ed., 218; Technique, of securing base of left auricular appendage after mitral valvular commissurotomy, 255; technique, Reconstruction of common bile duct by end-to-end anastomosis without use of internal splint or stent support, 305; technique, Plication procedure in treatment of small bowel adhesions, 343; plastic, Cartilage pharyngoplasty in cleft palate patients, 350; training, Surgical, ed., 371; technique, Simpler yet more effective repair of incontinent sphincter ani, 375; team work, Scrub nurse—vanishing species, ed., 494; technique, Management of massive rectal prolapse, 502; postoperative care, Postoperative use of dextro pantothenyl alcohol, 526; experimental, Production of portal hypertension in dogs by new method, 543; experimental, Effect of kidney hyperthermia on renal tolerance to total ischemia, 559; postoperative complications, Intussusception as, in pediatric, 583; Experimental, study of role of kidney in hyperchloremic acidosis, 600; technique, Modified, of vein stripping, 630; postoperative complications, Total red cell volume changes associated with extensive, 697; experimental, Effect of 6-mercaptopurine on renal homograft survival in dog, 707; neurologic, Roentgenographic and surgical aspects of vascular anomalies of spinal cord, 729; technique, of head and neck, ed., 748; technique, Improved gusset for relief of infundibular stenosis in surgical correction of tetralogy of Fallot defects, 757; technique, Reconstruction of functioning vagina following radiation therapy for cancer of cervix, 761; technique, Modified procedure for complete repair of total anomalous pulmonary venous drainage, 763

Sutures, dacron, Clinical experience with, as nonabsorbable, material, 373

TEMPERATURE, difference in organs and tissues with observations on total oxygen uptake in profound hypothermia, 519; Effect of kidney hyperthermia on renal tolerance to total ischemia, 559

Testes, Clinical significance of spermatic granuloma, 659

Tetralogy of Fallot, See Heart, abnormalities

Thromboembolism, Possible relation of plasma enzyme activity to, 315

Thrombosis, surgery, Thrombectomy for acute iliofemoral venous, in postpartum period, 75; Dissolution effect of human fibrinolysin on preformed venous thrombi in dogs, 295
Thudichum, J. L. W., Neglected genius of nineteenth century, 127
Thyroid, physiology, Effects of endocrine homografts on, and parathyroid function, 196; Cancer of, and previous irradiation, 564; inflammation, Morphologic modifications in granulomatous thryoiditis due to cortisone administration, 590; Antithyroid drugs in treatment of hyperthyroidism, 653
Tissue, connective, Contributions of endosteum, cortex, and soft, to osteogenesis, 145; Response to fluid therapy and, electrolyte changes in scalded and flash burned monkeys, 274; growth, Experimental study of influence of pore size of implanted polyurethane sponges upon subsequent, formation, 463; connective, Ascorbic acid in biosynthesis and maintenance of collagen, 667
Tosyl-arginine methyl ester (TAMe), Possible relation of plasma enzyme activity to thromboembolism, 315
Transplantation, liver, Studies on rejection of transplanted homologous dog, 135; spleen, Observations concerning, homotransplantation in normal and irradiated animals, 455; kidney, Effect of 6-mercaptopurine on renal homograft survival in dog, 707
Trochanter, See Hip
Tuberculosis, Comparative long term study following pulmonary resection for, 61
Tumor, lymphoma, Surgical aspects of hypersplenism in, and leukemia, 89; papilloma, Intraductal, of breast, 153; meningiomas, Life history and treatment of, within lateral ventricles, 299; polyps, Histochemical observations on polyp-carcinoma sequence, 534; Villous, of rectum and colon characterized by severe fluid and electrolyte loss, 609; adenofibroma, fibrocyst, papilloma, Chronic fibrocystic disease of breast, 647

Ulcers, See Duodenum, ulcer; Peptic ulcer
Ureters, surgery, Estimation of total body potassium in patients with ureterosigmoidostomies, 322; surgery, Clinical and cineradiographic evaluation of Mathisen ureterosigmoidostomy, 481
Urinary tract, Urologic problems in carcinoma of cervix, 27; infection, Appraisal or renal function and infection in advanced bladder cancer treated with ileal bladder construction and irradiation, 53
Urine, diversion, Experimental study of role of colonic mucosa in hyperchloremic acidosis, 357; diversion, Clinical and cineradiographic evaluation of Mathisen ureterosigmoidostomy, 481; diversion, Experimental study of role of kidney in hyperchloremic acidosis, 600; suppression, Anuria of hypovolemic shock relieved by tris (hydroxymethyl) aminomethane (THAM), 724; diversion, Urinary, in pelvic exenteration, 743
Uterus, cervix, Rapid identification of malignant cells in vaginal smears by cytoplasmic fluorescence, 3; cancer, Urologic problems in carcinoma of, 27; cancer, Reconstruction of functioning vagina following radiation therapy for, of, 761

Vagina, cytology, Rapid identification of malignant cells in vaginal smears by cytoplasmic fluorescence, 3; Reconstruction of functioning, following radiation therapy for cancer of cervix, 761
Varicose veins, Bleeding esophageal varices in children, 101; Modified technique of, stripping, 630
Varix, See Varicose veins; and under organs and regions
Vas deferens, Clinical significance of spermatic granuloma, 659
Veins, femoral, iliac, Thrombectomy for acute iliofemoral venous thrombosis in postpartum period, 75; femoral, thrombi, Dissolution effect of human fibrinolysin on preformed venous, in dogs, 295; renal, Common variations in, anatomy, affecting blood supply, form, and topography, 439; saphenous, Modified technique of, stripping, 630; pulmonary, Modified procedure for complete repair of total anomalous, venous drainage, 763

Weight, Use of diethylpropion combined with supplement for safe and effective, control in pregnancy, 663
What's New in Surgery, Cardiovascular surgery, 227; Fluids and metabolism; shock; burns, wound healing, and infection, 231; Anesthesia and pulmonary problems, 223; Gastrointestinal biliary conditions, 234; Neurologic surgery, 238; Obstetrics and gynecology, 240; Plastic surgery, 242; Tumors, 246; Urology, 251
Wounds, healing, Use of modified exposure in management of burn, 577; healing, Effect of topical nitrogen mustard on, 684
Wrist, Experimental study of radiocarpal joint by arthrography, 33

INDEX TO BOOK REVIEWS

ABRAMSON, HAROLD. Resuscitation of the Newborn Infant, edited by Harold Abramson, 645

ADRIANI, JOHN. The Pharmacology of Anesthetic Drugs, 4th ed., 387

AMERICAN COLLEGE OF SURGEONS. The Management of Fractures and Soft Tissue Injuries, by the Committee on Trauma, American College of Surgeons, based on An Outline of Treatment of Fractures, 7th ed., and Early Care of Acute Soft Tissue Injuries, 2nd ed., 643

ANDERSON, W. A. D. Synopsis of Pathology, 5th ed., 261

ARTZ, CURTIS P., and HARDY, JAMES D. Complications in Surgery and Their Management, edited by Curtis P. Artz, and James D. Hardy, 645

BAILEY, HAMILTON. Demonstrations of Physical Signs in Clinical Surgery, 13th ed., 515

BICK, EDGAR M. Trauma in the Aged, edited by Edgar M. Bick, introduction by Robert H. Kennedy, 515

BREIG, ALF. Biomechanics of the Central Nervous System; Some Basic Normal and Pathologic Phenomena, 261

COLEY, BRADLEY L. Neoplasms of Bone and Related Conditions; Etiology, Pathogenesis, Diagnosis, and Treatment, 2nd ed., 130

DAVIES, JACK. Survey of Research in Gestation and the Developmental Sciences, 766

FAULCONER, ALBERT, JR., and BICKFORD, REGINALD G. Electroencephalography in Anesthesiology, 259

FELSON, BENJAMIN. Fundamentals of Chest Roentgenology, 517

FRIEDELL, GLBERT H., HERTIG, ARTHUR T., and YOUNGE, PAUL A. Carcinoma in Situ of the Uterine Cervix, 388

GLENN, FRANK, MOORE, S. W., and BEAL, JOHN M. Surgery in the Aged, edited by Frank Glenn, S. W. Moore, and John M. Beal, 260

GOFF, CHARLES WEER. Surgical Treatment of Unequal Extremities, 389

GREENHILL, J. P. Obstetrics, 12th ed., 388

HAMBY, WALLACE B. The Case Reports and Autopsy Reports of Ambroise Paré, compiled and edited by Wallace B. Hamby, translated from J. P. Malgaigne's "Oeuvres Completes d'Ambroise Paré" Paris 1840, 516

HOMBURGER, F. Progress in Experimental Tumor Research, edited by F. Homburger, 388

HOWARD, JOHN M., and JORDAN, GEORGE L., JR. Surgical Diseases of the Pancreas, 766

ILLINGWORTH, C. F. W., and DICK, BRUCE M. A Textbook of Surgical Pathology, 8th ed., 131

JEFFERSON, SIR GEOFFREY. Selected Papers, 515

JOHNSTONE, RUTHERFORD T., and MILLER, SEWARD E. Occupational Diseases and Industrial Medicine, 518

KATO, KATSUJI. Atlas of Clinical Hematology, 643

MACKBY, M. JUDSON. The Surgical Treatment of Portal Hypertension, Bleeding Esophageal Varices, and Ascites, 767

MCLAREN, J. W. Modern Trends in Diagnostic Radiology, edited by J. W. McLaren, 3rd Series, 515

MENDELSON, CURTIS L. Cardiac Disease in Pregnancy, 645

MULHOLLAND, JOHN H., ELLISON, EDWIN H., and FRIESEN, STANLEY R. Current Surgical Management II; a Book of Alternative Viewpoints on Controversial Surgical Problems, edited by John H. Mulholland, Edwin H. Ellison, and Stanley R. Friesen, with contributions by 50 authorities, 261

NISSEN, RUDOLF, and WILSON, ROGER H. L. Pages in the History of Chest Surgery, 389

PACK, GEORGE T., and ARIEL, IRVING M. Treatment of Cancer and Allied Diseases. Tumors of the Breast, Chest, and Esophagus, by 67 authors, edited by George T. Pack, and Irving M. Ariel, 2nd ed., Vol. IV, 644

PELLEGRINI, G. F., and CARAFFA, G., with the collaboration of C. CROSTA. I tumori retroperitoneali, 130

PROCTOR, DONALD F. The Tonsils and Adenoids in Childhood, 386

QUEEN CHARLOTTE'S MATERNITY HOSPITAL. Queen Charlotte's Textbook of Obstetrics, by Members of the Clinical Staff, Queen Charlotte's Maternity Hospital, 10th ed., 767

RAMEY, ESTELLE R., and O'DOHERTY, DESMOND S. Electrical Studies on the Unanesthetized Brain, edited by Estelle R. Ramey and Desmond S. O'Doherty, a Symposium with 49 participants, 389

RAND, ROBERT W., and RAND, CARL W. Intraspinal Tumors of Childhood, 386

RANDERS-PEHRSON, JUSTINE. The Surgeon's Glove, 767

SCHAFFER, ALEXANDER J. Diseases of the Newborn, with a section on Neonatal Cardiology by Milton Markowitz, 130

SCHOBINGER, ROBERT A. Intra-osseous Venography, 131

SHAPIRO, ROBERT, and JANZEN, ARNOLD H. The Normal Skull; a Roentgen Study, 644

SMITHERS, D. W. Neoplastic Disease at Various Sites. Introductory Volume: A Clinical Prospect of the Cancer Problem, 387

SPENCER, RICHARD PAUL. The Intestinal Tract, 259

STANBURY, JOHN B., WYNGAARDEN, JAMES B., and FREDRICKSON, DONALD S. The Metabolic Basis of Inherited Disease, edited by John B. Stanbury, James B. Wyngaarden, and Donald S. Fredrickson, 644

THOMS, HERBERT. Our Obstetric Heritage; the Story of Safe Childbirth, 386

WAKELEY, SIR CECIL, HARMER, MICHAEL, and TAYLOR, SELWYN. Rose and Carless Manual of Surgery, edited by Sir Cecil Wakeley, Michael Harmer, and Selwyn Taylor, 389

WELLS, CHARLES, and KYLE, JAMES. Peptic Ulceration, foreword by Lester R. Dragstedt, 766

WILES, PHILIP. Fractures, Dislocations, and Sprains, 259

WOLF, BERNARD S., KHILNANI, MANSHO T., and LAUTKIN, ARTHUR. Diagnostic Roentgenology of the Digestive Tract Without Contrast Media, 387

YOUSSEF, ABDEL FATTAH. Gynecological Urology, compiled and edited by Abdel Fattah Youssef, with a foreword by Naguib Mahfouz, 260

ZUKSCHWERDT, L., EMMINGER, E., BIEDERMANN, F., and ZETTEL, H. Wirbelgelenk und Bandscheibe; Ihre Beziehung zum vertebragenen Schmerz Zugleich eine Stellungnahme zur Chiropraktik und Begutachtung, 2nd ed., 517